

## Camera Specifications

### Physical Dimensions

Width	5.6 in (142.5 mm)
Height	2.75 in (69.8 mm)
Depth	1.9 in (48.8 mm)
Weight	0.55 lb (250 g), without batteries

### Safety Specifications

FCC approval code BKMFBG660A

### Power

Sources 4 AA batteries (single-use alkaline or lithium or rechargeable NiCad or NiMH; do not use manganese)

Optional AC adapter (B867038)

### Battery Life

At least 400 pictures can be taken before the standard NiMH batteries need recharging (without the LCD screen or flash).

## Technical

Product type	CCD (charged coupled device) still frame auto focus camera
Image size	1024 × 768 pixels (fine and super fine) 640 × 480 pixels (standard and multi) 1024 × 384 pixels (panoramic)
DPI	144 standard and multi 240 all other settings
Bit depth	16 million colors, 24-bit
CCD	1/3 inch color area CCD (810,000 pixels)
Serial interface	8-pin mini-DIN (to camera), RS-232C-compatible (to computer)
Serial communication speed	Up to 115Kbps
Video out	NTSC standard
Internal memory	4MB flash memory
Optional expansion memory	CompactFlash cards from 4MB to 32MB (available from SanDisk® and Simple Technology®)

## Environmental

Temperature	Operating: 32 to 104°F (0 to 40°C) Non-operating: -4 to 140°F (-20 to 60°C)
Humidity	Operating: 30 to 90% (non-condensing) Non-operating: 10 to 90% (non-condensing)

## Photographic

Lens	f = 5 mm F2.8 (equivalent to a 36 mm lens on a 35 mm camera)
Range	20 inches (50 cm) to infinity (normal mode) 8 inches to 20 inches (20 cm to 50 cm) (macro mode)

LCD screen	2-inch active matrix TFT color LCD (110,000 pixels)
Sensitivity	Equivalent to ISO 100
Exposure control	Program auto exposure
White balance	TTL automatic white balance
Shutter	Electric iris with mechanical shutter, 1/8 second to 1/500 second (flash off mode) 1/30 second to 1/500 second (auto flash and forced flash modes)
Viewfinder	Optical, with centering crosshair and edge border
Focus	Auto focus
Aperture	F2.8, F5.6, F11 automatic change
Flash	Automatic luminance control flash
Flash modes	Forced flash, automatic, flash off
Flash range	8 inches to 8 ft (0.2 to 2.4 m)

## Battery Charger Specifications

### Physical Dimensions

Width	3.0 inches (76 mm)
Height	4.41 inches (112 mm)
Depth	0.87 inches (22 mm)

### Technical

Output	DC 1.2V/650mA × 4
Charging time	Approximately 160 minutes
Power consumption	Approximately 8 W
Charging temperature	32 to 95°F (0 to 35°C)

## Optional AC Adapter Specifications

### Physical Dimensions

Width	1.97 inches (50 mm)
Height	1.18 inches (30 mm) 1.85 inches (47 mm) including pins
Depth	3.74 inches (95 mm)

### Technical

Output	DC 7V/2.0A
Input	110 to 120 V AC, 50 to 60 Hz

## Box Contents

- ☐ PhotoPC 600 camera
- ☐ User's Guide
- ☐ 4AA NiMH rechargeable batteries and battery charger
- ☐ Serial cable for PC
- ☐ Macintosh serial cable adapter
- ☐ Software on CD-ROM: Sierra® Image Expert™ with diskette creation utility, EPSON Photo!2 application and TWAIN driver, EPSON Photo File Uploader, EPSON Photo!2 Program Uploader

## Minimum System Requirements

	Windows®	Macintosh®
<b>Processor</b>	486 or higher	68040 or higher or Power PC™
<b>Operating System</b>	Windows 95, Windows 3.1 or later, Windows for Workgroups® 3.11 or later, or Windows NT® 3.5 or later	System Software Version 7.1 or later (System 7.5 or later required to access CompactFlash card memory directly from the Macintosh.)
<b>RAM</b>	16MB	16MB
<b>Ports</b>	serial port with standard RS-232C interface	standard Macintosh modem/printer port
<b>Display</b>	640 × 480, 256 colors	640 × 480, 256 colors

	Windows®	Macintosh®
<b>Hard drive space</b>	30MB	30MB
<b>CD-ROM drive</b>	double-speed	double-speed

## Using Batteries

PhotoPC 600 comes with four rechargeable NiMH batteries and a charger.

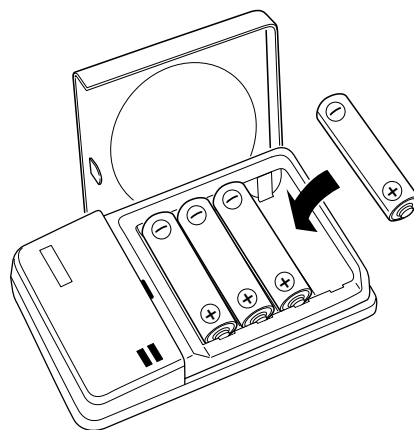
### Charging Batteries

#### WARNING

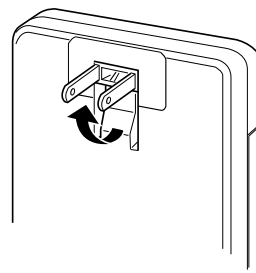
Make sure you use the charger only with EPSON rechargeable NiMH batteries (Model EU-24). To avoid the danger of leakage or explosion, do not place any other batteries in the charger. Do not insert batteries backwards. Do not open the cover while batteries are charging. For indoor use only. Do not use within reach of children.

Follow these steps to charge your batteries:

1. Lift up the cover of the charger and insert all four batteries, positioning the + and – ends as shown. Then close the cover firmly.



2. Turn the charger over and flip the two prongs out of their compartment.



3. Plug the charger into an electrical outlet.

Both lights turn red, indicating that the charger is working. When the batteries are fully charged, after about 2½ hours, the lights go off.

NOTE

The charger lights flash to indicate changes in battery temperature and voltage. If the charger lights continue to flash for more than half an hour, the batteries may be damaged or worn out, and should be replaced. Unplug the charger if the batteries are not fully charged after 2½ hours.

4. When both lights are off, unplug the charger. To avoid overcharging, don't leave the charger plugged in for long periods of time after the lights go off.

NOTE

Make sure you charge all four batteries before you use them. If you find that your batteries run out faster after you recharge them a few times, make sure you discharge them completely before recharging. If this doesn't help, replace the batteries.

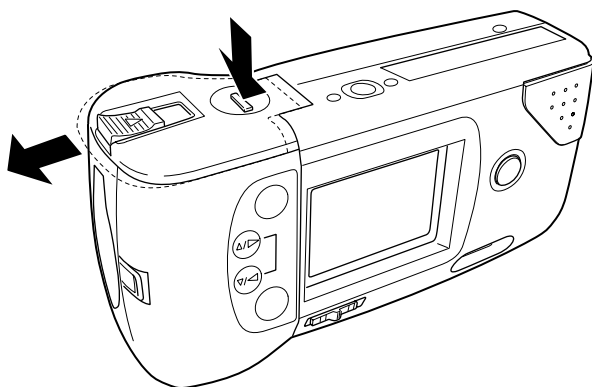
5. Wait one hour until the batteries cool before removing them from the charger.

6. Before storing the charger, press down on the prongs to lock the plug into place.

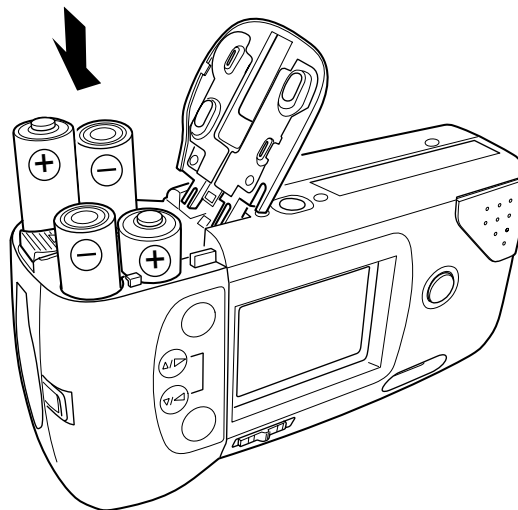
## Installing Batteries

Before you install the batteries, make sure the camera is turned off (the lens cover is closed). Then follow these steps:

1. Turn the camera upside down with the LCD screen facing you.
2. Push the battery cover lock down. While holding the lock, slide the battery cover to the left to open it.



3. Insert all four batteries into the compartment, positioning the + and - ends as shown below:



4. Close the battery cover and slide it to the right until it snaps into place.

## Handling Batteries

If you need to replace your rechargeable batteries, the camera can also accept the following:

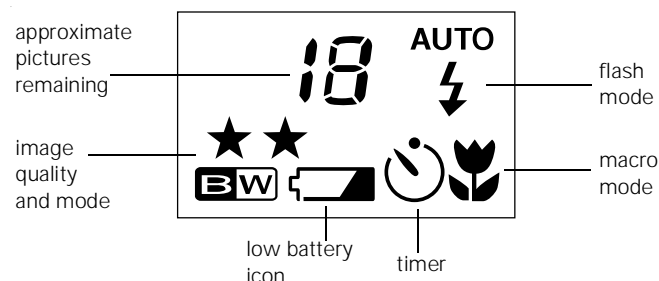
- ☐ Rechargeable AA NiCad batteries
- ☐ Single-use AA alkaline batteries (Energizer® brand recommended)
- ☐ Single-use AA lithium batteries (longer life)

WARNING


To avoid the danger of fire or explosion, do not mix different types of batteries. Replace all four batteries at the same time. Do not allow the battery contacts to touch metal objects such as coins or keys, which could short out the battery's circuits. Charge only with the EPSON NiMH battery charger (Model EU-23). Do not put in fire or water, drop or apply pressure, disassemble, short-circuit, or apply heat. Keep away from small children. If battery acid gets into your eyes or on your skin, immediately rinse the affected area well with water and seek medical treatment. If a battery is swallowed, seek medical treatment immediately.

## Using the Display Panel

The display panel shows the camera's current settings, the status of your batteries (when power is low), and the number of pictures remaining.



## Checking the Battery


 When your battery power is almost out, the low battery icon appears on the display panel. The icon flashes when your battery power is completely out.

To save battery power, the camera shuts off automatically after 60 seconds. To turn the camera back on, close the lens cover and then open it again.


## Flash

The camera's built-in flash is effective within a range of 8 inches to 8 feet (20 cm to 2.4 m). Press the flash button to cycle through the three flash settings. An icon for each setting appears on the display panel as shown below:


### Auto

**AUTO**  The flash goes off automatically whenever it's needed for adequate lighting (factory setting).

### Flash Off

 The flash is disabled, even when adequate lighting is not available. Use this setting for special effects, or where flash photography is prohibited.

### Forced Flash

 The flash goes off with every picture you take. Use this setting to compensate for backlighting; for example, when you are facing a light source.

## Image Quality and Color Mode

PhotoPC 600 has several image quality (resolution) settings: three for color pictures and two for black and white pictures.


### Fine

★★ Produces color images at 1024 × 768 pixels with moderate compression. Your pictures include ample detail, and the camera holds at least 16 pictures (factory setting).


### Super Fine

★★★ Produces color images at 1024 × 768 pixels with low compression. Your pictures include greater detail, and the camera holds at least 7 pictures. With less compression, Super Fine images are better for enlarging.

### Monochrome Fine

★★  Produces black and white images at 1024 × 768 pixels with moderate compression. Your pictures include ample detail, and the camera holds at least 16 pictures.

### Monochrome Super Fine

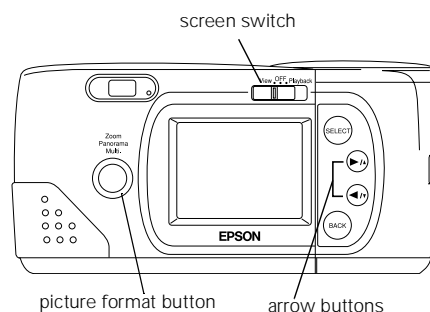
★★★  Produces black and white images at 1024 × 768 pixels with low compression. Your pictures include greater detail, and the camera holds at least 7 pictures. With less compression, Super Fine images are better for enlarging.

### Standard


★ Produces color images at 640 × 480 pixels. The camera holds at least 50 pictures, but the image size is smaller and includes less detail when enlarged.


## Special Format Pictures


You can take three types of special format pictures with PhotoPC 600: digital zoom, panorama, and multi-frame. To shoot these types of pictures, you use the LCD screen and the buttons around the screen, as shown:





## Digital Zoom

 Follow these steps to take a digital zoom picture (640 × 480 pixels):



1. Press the picture format button.
2. Press the  button to zoom in on the image. You can increase the zoom magnification rate as follows:

Press  ...	To increase the zoom rate to ...
Once	1.3 ×
Twice	1.6 ×
Three times	2 ×
Four times	2.5 ×
Five times	3 ×


## Panorama

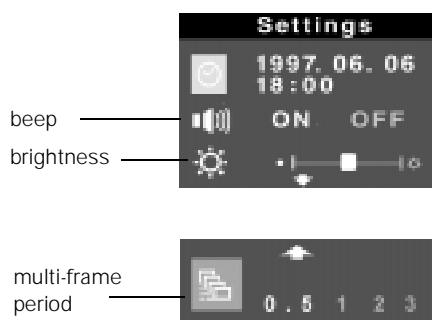
 Press the picture format button, then press the  button once (1024 × 384 pixels).


## Multi-frame


 When you use this format, the shutter releases 9 times in rapid sequence, producing a single image composed of 9 stop-action frames (640 × 480 pixels total image area). Press the photo format button and then press the  button twice.


## LCD Menus


 Settings (date, time, beep, LCD brightness, and multi-frame period).




 Information (turn off the display of information on played-back pictures).


 Playback Mode (one at a time or groups of 9 images).


 Erase Photo (erase the currently displayed picture).

 Photo Control (erase, lock, display memory information, or work with flash memory cards).



 Slide Show (play back pictures automatically).

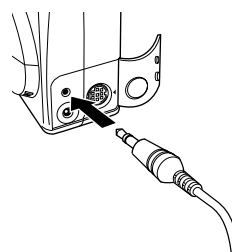
 Option Menu (install optional camera programs or print directly from the camera).

 Language (select English or Japanese for LCD display and menus).

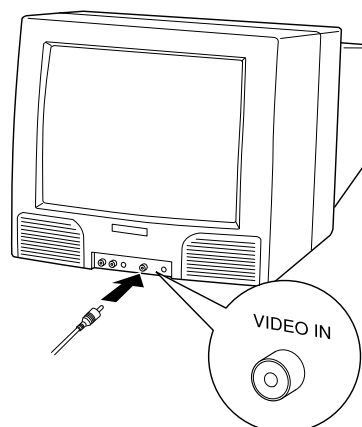
## Playing Pictures on a TV or Projector

You can display your pictures on a multimedia projector, television, or VCR.

1. Make sure the camera and TV (and VCR) are turned off.
2. Open the camera's connector cover and connect the black end of the video cable to the Video Out port as shown:



3. Connect the yellow end of the cable to the video input port on the projector, television, or VCR:



4. Turn on the projector or TV (and VCR) and switch to the correct video mode.
5. Slide the screen switch on your camera to Playback. The last picture you took appears on the TV screen or is projected. You can use all of the camera's playback features when your pictures are displayed on TV or projected.

## Using the Camera for Presentations

You can create and show a presentation without printing overhead transparencies or slides, and without a laptop computer. The EPSON Photo File Uploader lets you transfer images from your computer to your camera. Anything you can display on your computer screen can be captured, converted, and uploaded.

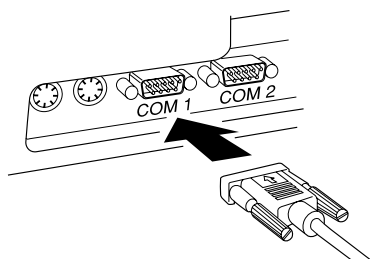
## Getting Pictures into Your Computer

When you're finished taking pictures, you can connect the camera to your computer and transfer the images.

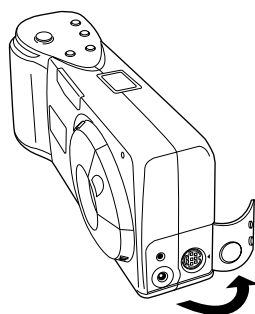
### Connecting to a Windows PC

Before you start, turn off the camera, LCD screen, and your computer. Then follow these steps:

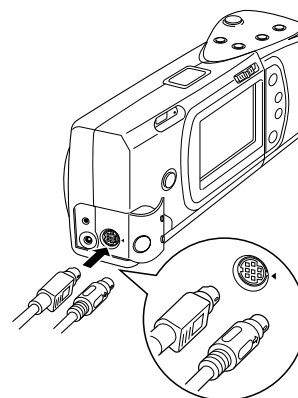
1. Locate a serial port on the back of your computer.
2. Line up the serial connector on the cable with one of the serial ports on your computer, and insert the connector. Then tighten the screws.



3. Open the connector cover on the side of the camera.





4. Depending on the type of cable you have, line up either the arrow or the flat side of the cable connector with the mark on the camera's serial port. Then insert the connector.



5. Turn on the camera and your computer system.

### Connecting to a Macintosh

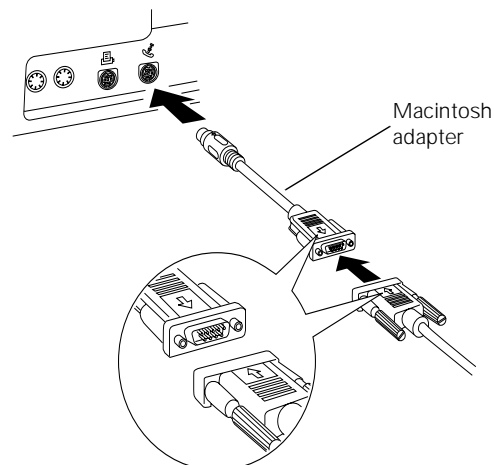
Before you start, turn off the camera, LCD screen, and your Macintosh. Then follow these steps:

1. Locate the modem port  or printer port  on the back of your Macintosh. You can use either port to connect the camera.

#### NOTE

If you are sharing a serial port that you use for another device, make sure AppleTalk™ is turned off. Your Macintosh may not recognize the camera if AppleTalk is on.

2. Connect the long cable to the short Macintosh adapter cable, then tighten the screws.
3. With the arrow on the cable facing up, line up the cable connector with the port on your Macintosh. Then insert the connector.



4. Open the connector cover on the side of the camera.
5. Depending on the type of cable you have, line up either the arrow or the flat side of the cable connector with the mark on the camera's serial port. Then insert the connector.
6. Turn on the camera and your Macintosh system.

## Using CompactFlash Memory Cards

You can use optional ATA-compatible CompactFlash memory cards (4MB and up) to increase the storage capacity of your PhotoPC 600 camera. When you install a card, the camera stores pictures on the card, rather than in its internal memory. You can copy photos from your camera to the card (and vice versa).

If your desktop or laptop computer has a Type II PCMCIA card slot, you can access images on memory cards directly by using the optional PCMCIA adapter.

CompactFlash cards increase the camera's picture storage capacity as shown in the table below. Each card adds the number of pictures shown to the number of pictures in the camera's internal memory.

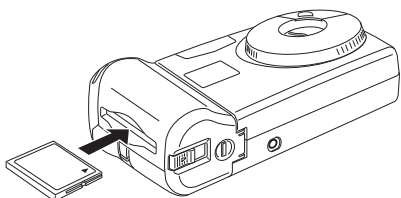
*Number of pictures (minimum capacity)*

Image Quality	Internal Memory	4MB Card	8MB Card	12MB Card	16MB Card
Standard	50	58	119	179	240
Fine	16	19	39	59	80
Super Fine	7	8	17	25	34
Fine Panorama	33	39	79	119	160
Super Fine Panorama	14	16	34	51	68

## Installing a Memory Card

Before you start, make sure the camera and the LCD screen are turned off.

Insert the card all the way into the memory card slot, as shown below:

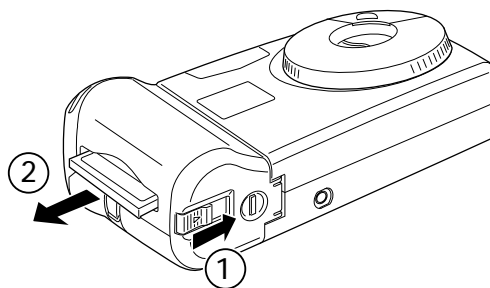


The number of pictures you can store in the memory card appears in brackets on the camera's display panel.

## Removing a Memory Card

Make sure the camera and the LCD screen are turned off. Then follow these steps:

1. Slide the switch on the bottom of the camera to eject the memory card.



2. Remove the card by hand.

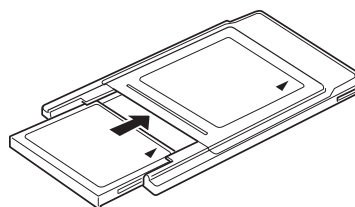
### CAUTION

Never remove the card while the camera is accessing it. Data in the card may be lost or damaged. Avoid using or storing the card in dusty places, in direct sunlight, or in places that become extremely hot or humid.

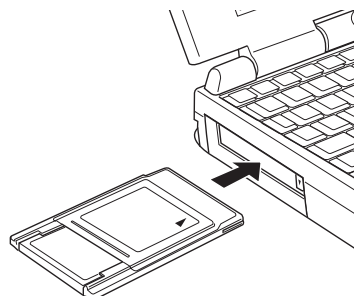
## Using a PCMCIA Adapter

Follow these steps to use an adapter:

1. Insert the memory card all the way into the adapter, as shown below:



2. Insert the adapter into your computer's Type II PCMCIA slot:



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## Maintenance

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### Cleaning the Camera and Battery Charger

- ☐ Use a clean, dry cloth to wipe the camera free of dust.
- ☐ Use a damp cloth to clean the battery charger
- ☐ Don't use harsh or abrasive cleaners. Don't use liquid or aerosol cleaners.
- ☐ Unplug the battery charger before cleaning.
- ☐ Keep the battery charger terminals clean by wiping them with a dry cloth.
- ☐ To clean the lens, first blow off any loose dust or dirt. Then breathe on the lens and wipe off all moisture with a soft, lint-free cloth or lens cleaning tissue. To avoid scratching the lens, don't press too hard.
- ☐ If necessary, clean the battery contacts with a dry cloth.
- ☐ If the LCD screen gets fingerprints or smudges on it, use a soft, damp cloth to lightly wipe the screen.

### Storing the Camera

- ☐ Keep the lens covered (power turned off) and store the camera in a carrying case or bag when you're not using it.
- ☐ When the camera is not used for long periods of time, remove the batteries and store them at a low temperature in a dry location. This prevents camera damage from battery leaks or corrosion.

Do not store the camera in the following locations:

- ☐ Where it will be exposed to direct sunlight, for example, on a car dashboard
- ☐ Near bright sources of light or high humidity
- ☐ Near heat sources or in a closed car or trunk
- ☐ In areas of excessive dirt or dust
- ☐ Where it will be exposed to strong vibrations or magnetic fields

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## Warranty

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1 year camera, 90 days batteries and charger

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## Related Documentation

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CPD5281, 4007823 EPSON PhotoPC 600 User's Guide

